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(54) **TDMA VARIABLE SLOT ALLOCATION METHOD**

(57)Abstract:

PROBLEM TO BE SOLVED: To quickly cope with fluctuation traffic from a mobile equipment by securing a fixed slot, securing a variable slot when a free slot is present in the variable slot, reporting a secured result to the mobile equipment and processing the data of both fixed and variable slots from the corresponding mobile equipment.

SOLUTION: The mobile equipment requests calling to a base station by using an incoming control channel, adds quality information requested by the mobile equipment to a calling request message and transmits it. The base station receives it, and when a calculated minimum required slot number (Ns) can be allocated from a free portion within one frame, allocates it to the mobile equipment as a fixed allocation slot. Also, from the maximum transmission speed of the quality information inside the calling message, a maximum slot number (Nr) used in one frame by the mobile equipment is calculated. In the case that the maximum slot number can be allocated by the free slots of the variable slots, (Nr-Ns) pieces of the slots are allocated to the mobile equipment as allocation changeable slots.